Chart 44203 (A) NM 33/02

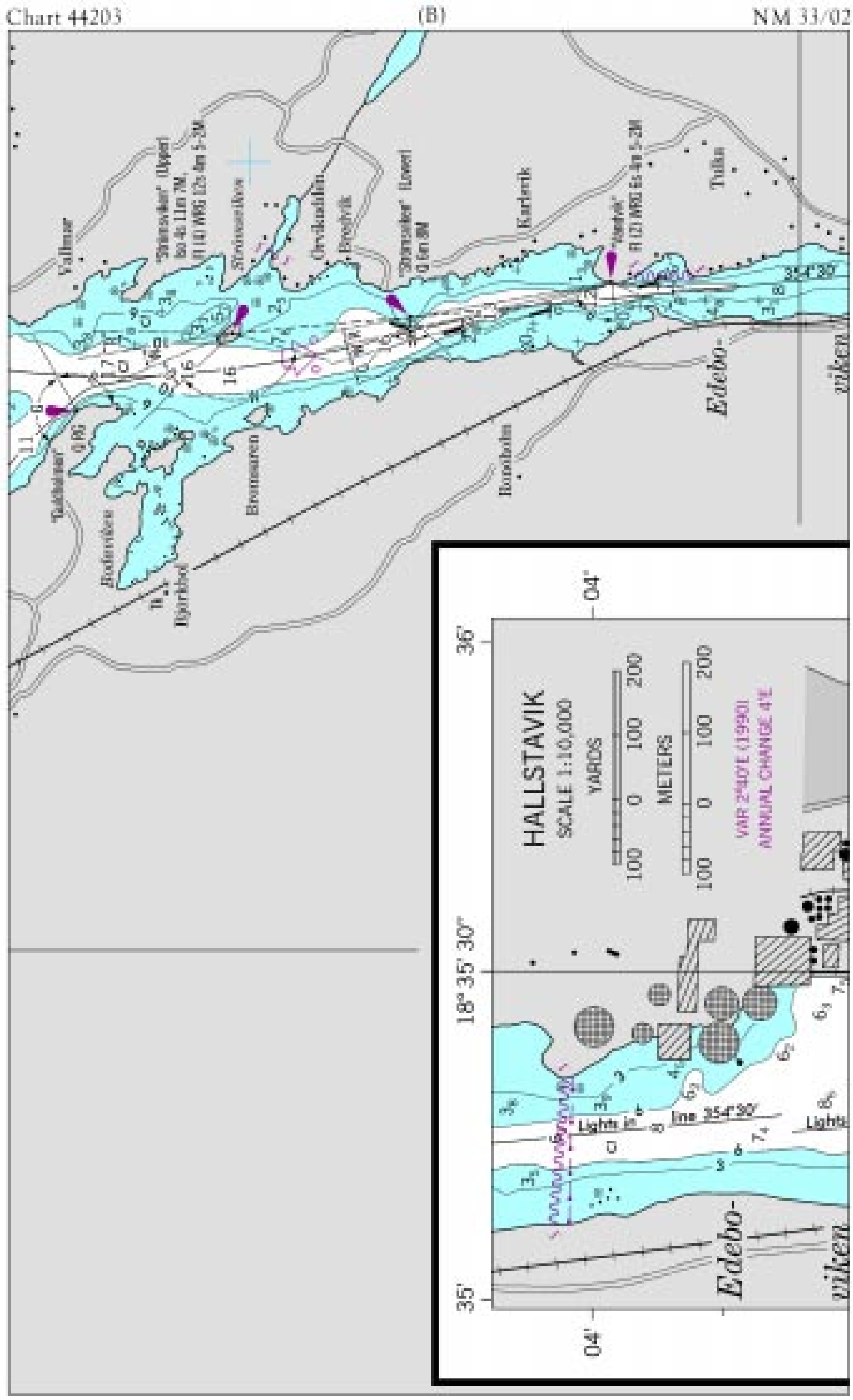
Chart 44203
(B)
NM 33/02
HALLSTAVIK
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Chart 11389 NM 33/02

PORT ST. JOE AND PANAMA CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
PORT ST. JOE HARBOR							
ENTRANCE CHANNEL	24.8	28.0	21.0	4-00, 6-01	300-500	6.0	35-37
NORTH CHANNEL	27.3	27.8	27.8	4-00	300	4.1	35
TURNING BASIN	25.9	26.3	27.1	4-00	650	0.3	32
HARBOR CHANNEL	26.2	25.5	25.7	4-00	250	0.3	35
SOUTH CHANNEL		A			200	1.1	27
PANAMA CITY HARBOR							
ENTRANCE CHANNEL	29.2	30.8	23.8	3-02; 5-02	450-300	2.1	34-32

A. NOT MAINTAINED

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11390 (Side A) NM 33/02

PANAMA CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
PANAMA CITY HARBOR							
ENTRANCE CHANNEL	29.2	30.8	23.8	3-02; 5-02	450-300	2.1	34-32

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11391 NM 33/02

PANAMA CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
PANAMA CITY HARBOR							
ENTRANCE CHANNEL	29.2	30.8	23.8	3-02; 5-02	450-300	2.1	34-32

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11537 NM 33/02

CAPE FEAR RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUN 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BALDHEAD SHOAL	36.2	38.3	36.9	32.6	8,10-01	500	5.0	40
SMITH ISLAND	45.2	45.5	45.4	40.1	6-02	500	1.0	40
BALDHEAD CASWELL CHANNEL	44.8	45.2	44.2	44.4	2-02	500	0.4	40
SOUTHPORT CHANNEL	43.5	45.1	44.9	44.1	1-02	500	1.0	40
BATTERY ISLAND CHANNEL	45.1	44.2	44.7	44.1	2-02	500	0.5	40
LOWER SWASH	41.5	42.2	41.5	41.3	5-02	400	1.6	38
SNOWS MARSH	42.1	41.8	40.4	40.5	9,11-01;1-02	400	3.1	38
HORSESHOE SHOAL	40.4	42.7	42.2	40.8	5-02	400	1.2	38
REAVES POINT	35.8	37.8	37.2	35.5	3-02	400	1.2	38
LOWER MIDNIGHT	35.5	38.4	38.6	34.0	3-02	400	1.6	38
UPPER MIDNIGHT	36.7	37.6	38.3	36.2	3-02	400	2.7	38
LOWER LILLIPUT	37.1	36.8	36.9	35.3	3-02	400	1.9	38
UPPER LILLIPUT	35.7	37.1	37.0	35.8	3-02	400	1.9	38
KEG ISLAND	37.5	39.0	37.4	34.7	3-02	400	1.4	38
BIG ISLAND LOWER	39.7	42.4	43.6	43.1	3-02	400	0.8	38
BIG ISLAND UPPER	41.1	42.9	43.5	37.5	3-02	400	0.5	38
LOWER BRUNSWICK	37.7	38.3	38.9	37.8	4-02	400	1.6	38
UPPER BRUNSWICK	34.1	39.7	39.7	36.8	4-02	400	1.0	38
FOURTH EAST JETTY	36.7	38.6	39.0	36.5	4-02	400	1.2	38
BETWEEN CHANNEL	32.2	39.7	39.1	36.2	4-02	550	0.8	38
ANCHORAGE BASIN & APP CHANNEL	29.8	35.9	35.9	32.2	4-02	450-1090	1.3	38
HWY 74-76 TO BATTLESHIP	27.1	32.7	35.5	24.3	4-02	400	0.6	32
BATTLESHIP TO HWY 117 INCLUDING TURNING BASIN	10.8	29.6	31.1	24.7	4-02	190-850	-	32
HWY 117 TO HILTON BR	26.7	30.4	31.0	30.7	4-02	200-400	0.5	32
THENCE TO END OF PROJECT AT 34°16'36"N, 77°57'01"W	23.1	23.6A	23.5B	21.9C	6-99	200	1.2	25
TURNING BASIN	24.6	21.0	22.2	16.1	6-99	500	0.1	25

A. EXCEPT FOR SHOALING TO 21.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
B. EXCEPT FOR SHOALING TO 16.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
C. EXCEPT FOR SHOALING TO 10.2 FEET FOR THE LAST 150 FEET OF THE PROJECT.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12222 NM 33/02

HAMPTON AND PHOEBUS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HAMPTON R. ENTRANCE CHANNEL	12.2	13.1	11.7	9-01	200	1.1	12
HAMPTON REACH	10.6	12.2	10.9	9-01	150	1.2	12
SUNSET CREEK	12.0	A12.6	A11.3	9-01	100-80	0.5	12
PHOEBUS CHANNEL	12.3	12.0	11.3	10-90	150	0.7	12

A. EXCEPT FOR SHOALING TO 6.6 FEET FOR THE LAST 150 FEET OF THE PROJECT.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12245 NM 33/02

HAMPTON AND PHOEBUS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HAMPTON R. ENTRANCE CHANNEL	12.2	13.1	11.7	9-01	200	1.1	12
HAMPTON REACH	10.6	12.2	10.9	9-01	150	1.2	12
SUNSET CREEK	12.0	A12.6	A11.3	9-01	100-80	0.5	12
PHOEBUS CHANNEL	12.3	12.0	11.3	10-90	150	0.7	12

A. EXCEPT FOR SHOALING TO 6.6 FEET FOR THE LAST 150 FEET OF THE PROJECT.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12252 NM 33/02

JAMES RIVER
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS
SURVEYS TO NOV 2001

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
HOPEWELL TO RICHMOND			
DEEPWATER TERMINAL	24.7	200	6-01
37°27'05.0"N, 77°25'07.4"W			
CHANNEL ADJOINING TURNING BASIN	24.7	200	11-01
TURNING BASIN	24.4	385	11-01
THENCE TO RICHMOND			
HARBOR TURNING BASIN	16.9	200	10-99;2-00
TURNING BASIN	16.6	140-175	10-99
THENCE TO 37°31'29.0"N, 77°25'14.5"W	17.8	200	10-99

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 13270 NM 33/02

TOWN RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2002
AND SURVEYS TO OCT 2000 - NOV 2001

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
TOWN RIVER:							
ENTRANCE CHANNEL	29.5	30.0	28.4	10-00, 11-01	300	0.7	35
HOLE POINT REACH	32.0	32.8	33.2	10-00, 11-01	300	0.5	35
QUINCY REACH	A7.7	1.1	8.5	10-00, 11-01	100	0.2	15

A. EXCEPT FOR SHOALING TO 0.8 FEET IN FINAL 50 FEET OF CHANNEL.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18521 NM 33/02

COLUMBIA RIVER CHANNEL DEPTHS
ENTRANCE TO MILLER SANDS RANGE
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2002

	* SEE FOOTNOTE					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
ENTRANCE RANGE	55	56	51	43	3-02	2640	3.3	48
SAND ISLAND RANGE								
(CLATSOP SPIT)	50	53	50	44	3-02	2640	2.2	48
LOWER DESDEMONA SHOAL	43	34	27	15	3,4,5-02	600	3.4	40
UPPER DESDEMONA SHOAL	44	46	46	45	5-02	600	3.7	40
TANSY POINT TURN AND RANGE	41	40	41	38	5-02	600	4.7	40
ASTORIA RANGE	42	41	42	43	5-02	600	2.7	40
TONGUE POINT CHANNEL	39	42	42	41	5-02	600	2.2	40
HARRINGTON POINT RANGE	40	40	39	40	5-02	600	2.6	40
MILLER SANDS RANGE	37	42	41	39	5-02	600	2.2	40

* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18523 NM 33/02

COLUMBIA RIVER CHANNEL DEPTHS
MILLER SANDS RANGE TO GULL ISLAND TURN AND CHANNEL
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MILLER SANDS RANGE	37	42	41	39	5-02	600	2.2	40
PILLAR ROCK LOWER RANGE	35	39	38	40	5-02	600	3.0	40
PILLAR ROCK UPPER RANGE	38	43	42	42	5-02	600	1.9	40
WELCH ISLAND REACH	42	41	44	38	5-02	600	3.2	40
SKAMOKAWA CHANNEL	34	42	41	39	5-02	600	3.3	40
STEAMBOAT REACH	47	47	41	42	5-02	600	1.4	40
PUGET ISLAND RANGE AND TURN	41	42	40	37	5-02	600	3.5	40
WAUNA RANGE	40	40	39	39	5-02	600	2.2	40
DRISCOLL RANGE	41	41	41	41	5-02	600	1.7	40
WESTPORT TURN AND RANGE	40	42	42	42	5-02	600	2.0	40
WESTPORT CHANNEL	37	40	38	37	5-02	600	2.4	40
EUREKA LOWER CHANNEL	45	44	42	41	5-02	600	2.1	40
EUREKA UPPER CHANNEL	43	42	43	43	5-02	600	0.8	40
OAK POINT CHANNEL	45	45	45	45	5-02	600	2.4	40
GULL I TURN AND CHANNEL	46	44	43	41	5-02	600	2.2	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18524 NM 33/02

COLUMBIA RIVER CHANNEL DEPTHS
GULL ISLAND TURN AND CHANNEL TO SAINT HELENS TURN
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
GULL I TURN AND CHANNEL	46	44	43	41	5-02	600	2.2	40
STELLA RANGE	38	40	40	39	5-02	600	2.8	40
FISHER I CHANNEL	39	40	43	40	4,5-02	600	0.9	40
WALKER I CHANNEL	38	39	41	37	4-02	600	1.5	40
BARLOW PT. CHANNEL	44	46	44	41	4-02	600	1.3	40
SLAUGHTERS CHANNEL	40	42	39	40	4-02	600	2.5	40
SLAUGHTERS TURN AND CHANNEL OPPOSITE THE TURNING BASIN	39	39	39	38	4-02	600	1.7	40
COTTONWOOD ISLAND LOWER RANGE	38	38	38	38	4-02	600	1.7	40
COTTONWOOD ISLAND TURN	41	41	41	39	4-02	600	2.7	40
COTTONWOOD ISLAND UPPER RANGE AND TURN	42	42	42	43	4-02	600	1.6	40
KALAMA LOWER RANGE	41	43	42	38	4-02	600	1.8	40
KALAMA UPPER RANGE	40	39	40	37	4-02	600	2.2	40
BYBEE LEDGE CHANNEL	41	42	44	40	4-02	600	2.1	40
MARTIN ISLAND CHANNEL	39	40	40	37	4-02	600	2.1	40
MARTIN ISLAND RANGE	42	41	43	42	4-02	600	1.4	40
COLUMBIA CITY CHANNEL	41	42	42	41	4-02	600	1.2	40
ST. HELENS RANGE	40	40	40	38	4-02	600	2.0	40
ST. HELENS TURN	42	43	39	36	4-02	600	1.7	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18525 NM 33/02

COLUMBIA RIVER CHANNEL DEPTHS
SAINT HELENS TURN TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ST. HELENS TURN	42	43	39	36	4-02	600	1.7	40
WARRIOR ROCK RANGE	39	40	40	42	5-02	600	1.3	40
DUCK CLUB TURN	41	41	42	43	5-02	600	1.4	40
HENRICI RANGE	41	41	41	41	5-02	600	2.6	40
FALES CHANNEL	42	42	41	39	5-02	600	1.1	40
KNAPP POINT CHANNEL	41	41	39	39	4,5-02	600	1.8	40
WILLOW LOWER RANGE	39	41	40	41	4-02	600	2.1	40
WILLOW UPPER RANGE	44	45	42	41	4-02	600	1.1	40
MORGAN TURN	43	44	45	49	4-02	600	1.0	40
MORGAN CHANNEL	43	46	41	42	4-02	600	1.5	40
VANCOUVER LOWER CHANNEL	47	49	53	53	4-02	500	1.0	40
VANCOUVER RANGE	41	41	40	41	4-02	500	1.3	40
VANCOUVER UPPER CHANNEL	43	42	42	42	4-02	500	0.9	40
VANCOUVER LOWER TURNING BASIN	35	39	39	41	4-02	800	1.0	40
VANCOUVER UPPER TURNING BASIN	33	29	29	31	4-02	800	0.9	35
TOMAHAWK BAR	18	18	18	17	10-01	300	3.7	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18526 NM 33/02

COLUMBIA RIVER CHANNEL DEPTHS
MORGAN CHANNEL TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MORGAN CHANNEL	43	46	41	42	4-02	600	1.5	40
VANCOUVER LOWER CHANNEL	47	49	53	53	4-02	500	1.0	40
VANCOUVER RANGE	41	41	40	41	4-02	500	1.3	40
VANCOUVER UPPER CHANNEL	43	42	42	42	4-02	500	0.9	40
VANCOUVER LOWER TURNING BASIN	35	39	39	41	4-02	800	1.0	40
VANCOUVER UPPER TURNING BASIN	33	29	29	31	4-02	800	0.9	35
TOMAHAWK BAR	18	18	18	17	10-01	300	3.7	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18581 NM 33/02

YAQUINA BAY AND RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL ENTRANCE 44°36'23"N, 124°05'24"W TO FIRST TURN	26	30	25	4-02	400-300	1.3	40-30
THENCE TO TURNING BASIN	28	28	25	4-02	300-400	1.3	30
TURNING BASIN	18	23	24	4-02	300-1200	0.3	30
THENCE TO YAQUINA	13	12	12	6-00	200	1.6	18
THENCE TO END OF PROJECT	2A	07	5B	7-98;7-00;11-00	150	9.7	10

A. SHOAL TO BARE AT 44°36'57.89"N, 123°56'34.87"W.
B. SHOAL TO BARE FROM 44°36'49.6"N, 123°56'55.4"W TO 44°36'57.3"'N, 123°56'42.7"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18583 NM 33/02

SIUSLAW RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001 AND SURVEYS TO MAR 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE TO HIGHWAY BRIDGE	9	10	11	3-02	300-200	5.0	18-16
TURNING BASIN	10	8	6	3-02	400	0.3	16
TURNING BASIN TO CUSHMAN	8	9	9	7-99;3-02	150	2.1	12

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18588 NM 33/02

COQUILLE RIVER CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2002 AND SURVEYS TO MAY 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
A ENTRANCE CHANNEL	12	14	13	5-02	200	0.33	13.0
ENTRANCE CHANNEL TO PORT DOCK (43°07'15.9"N, 124°24'50.5"W)	14	13	8	5-02	200	0.63	13.0
THENCE TO END OF PROJECT	12	14	14	5-02	150	0.38	13.0

A. THE ENTRANCE CHANNEL IS SUBJECT TO FREQUENT CHANGES AND THE DEEPEST WATER IS NOT ALWAYS ON THE RANGE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18649 NM 33/02

OAKLAND OUTER AND INNER HARBORS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	40.1	42.1	40.5	40.1	4-02	1000-930	0.57	42
OUTER HARBOR ENTRANCE CHANNEL	38.7	41.2	41.7	38.8	4-02	900-600	0.91	42
OUTER HARBOR	39.4	39.6	40.9	39.9	4-02	1575-600	1.40	42
INNER HARBOR								
ENTRANCE CHANNEL	41.0	41.3	40.9	40.3	4-02	2100-480	1.10	42
INNER HARBOR REACH	41.2	41.3	41.0	40.4	4-02	1325-480	2.27	42
GROVE ST PIER TO								
BROOKLYN BASIN	A22.3	33.4	34.5	B24.2	2-01;4-02	600	1.30	42
BROOKLYN BASIN SOUTH CHANNEL	C14.4	22.8	23.7	D9.7	2-01	600-500	0.90	42
PARK ST BRIDGE REACH	13.9	20.3	23.5	11.3	7-86;3-88	500-275	0.42	42

A. A DEPTH OF 32.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
B. A DEPTH OF 33.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
C. A DEPTH OF 19.5 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
D. A DEPTH OF 19.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18650 NM 33/02

OAKLAND OUTER AND INNER HARBORS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	40.1	42.1	40.5	40.1	4-02	1000-930	0.57	42
OUTER HARBOR ENTRANCE CHANNEL	38.7	41.2	41.7	38.8	4-02	900-600	0.91	42
OUTER HARBOR	39.4	39.6	40.9	39.9	4-02	1575-600	1.40	42
INNER HARBOR								
ENTRANCE CHANNEL	41.0	41.3	40.9	40.3	4-02	2100-480	1.10	42
INNER HARBOR REACH	41.2	41.3	41.0	40.4	4-02	1325-480	2.27	42
GROVE ST PIER TO								
BROOKLYN BASIN	A22.3	33.4	34.5	B24.2	2-01;4-02	600	1.30	42
BROOKLYN BASIN SOUTH CHANNEL	C14.4	22.8	23.7	D9.7	2-01	600-500	0.90	42
PARK ST BRIDGE REACH	13.9	20.3	23.5	11.3	7-86;3-88	500-275	0.42	42

A. A DEPTH OF 32.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
B. A DEPTH OF 33.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
C. A DEPTH OF 19.5 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
D. A DEPTH OF 19.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18652 (Page D, Inset 4) NM 33/02

OAKLAND INNER HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
INNER HARBOR:			
GROVE ST. PIER TO BROOKLYN BASIN	22.3	600	2-01;4-02
BROOKLYN BASIN SOUTH CHANNEL	9.7	600-500	2-01
PARK ST. BRIDGE REACH	11.3	500-275	7-86;3-88

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE